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Huntington District

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5th Avenue Dam AQUATIC ECOSYSTEM RESTORATION

1 August 2006

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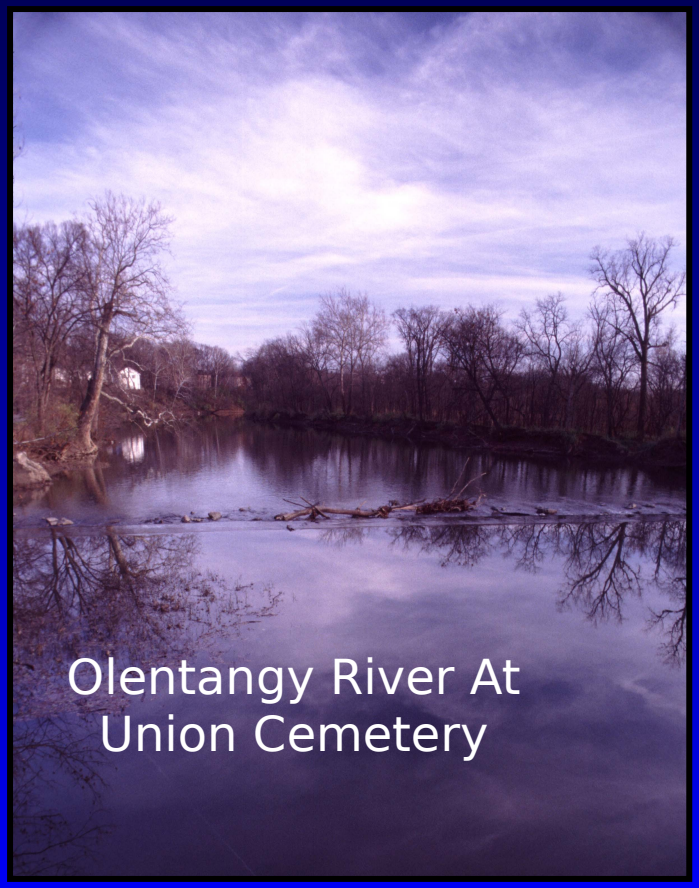
WELCOME!

Purpose of Public Meeting

- Obtain information from **YOU**!
- Explain Corps of Engineers feasibility study process
- Present a schedule of activities
- Explain NEPA
- Discuss problems and opportunities for Olentangy River near the 5th Ave Dam
- Consider potential alternatives

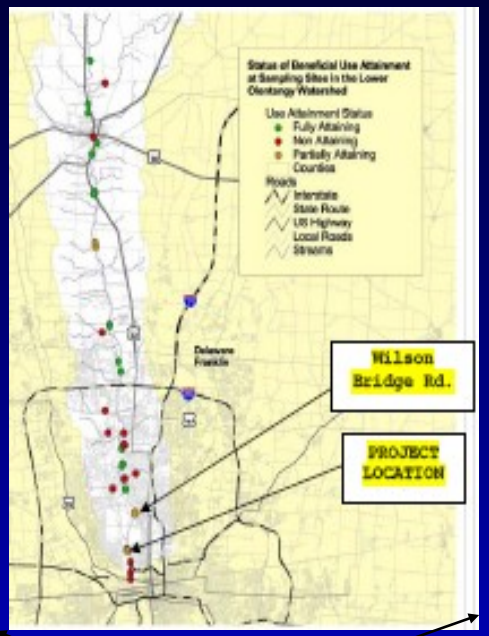


Olentangy River At Union Cemetery

Project Location

- Project area is river corridor between Dodridge and 5th Avenue Dams

- 5th Ave dam is located on the Olentangy River, 2 miles upstream of confluence with Scioto River



Lower Olentangy Sub-basin

- 150 sq. mile portion of a 565 sq. mile watershed
- Delaware Dam to confluence with the Scioto
- Upper 22 miles designated State Scenic River in 1973
- Lower portion of the sub-basin comprises most rapidly growing part of Ohio
- Heavily impacted by urban development

Project Description & History

- Dam built in 1935 as source of cooling water for power plant, but no longer in use
- Sewage line built in 1970's parallels the Olentangy
- Combined sewage overflows (CSO's) discharge raw sewage into Olentangy during heavy rainstorms
- Slack water pool behind the dam used by crew teams for many years
- 5th Ave Dam is 470' wide by 8' high.

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Purpose

- Investigate restoration of an impaired ecosystem
- Improve habitat for approximately 2-mile project area

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Project Sponsor and Partners

- City of Columbus - Local Sponsor
- Advisory Committee – Partners / Stakeholders
  - Friends of the Lower Olentangy River (FLOW) – Partner
  - Faculty / students / alumni groups from The Ohio State University (OSU)
  - Ohio Environmental Protection Agency (OEPA)
  - Ohio Department of Natural Resources (ODNR)
  - Neighborhood / community groups

Section 206: *"Aquatic Ecosystem Restoration" Project Phases*

Phase	Cost Share Corps/sponsor	Duration
Study Initiation/PRP	100% Corps	Complete
Feasibility	65%/35%	1-2 years
Plans and Specs	65%/35%	1-2 years
Construction	65%/35%	Variable
Operation &	100% Sponsor	Project

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Feasibility Phase

What does it Accomplish?

- Defines problems, evaluates alternative plans & describes the recommended project
- Determines real estate needs & facilities to be relocated
- Estimates project cost
- Prepares detailed schedule

What are Costs?

- 65/35 Cost share between Corps and Sponsor
- Sponsor may provide up to 100% of cost share with in-kind services

How long does it take? 1-2 years

Feasibility Phase

SIX PLANNING STEPS

- Step 1: Identifying Problems and Opportunities
- Step 2: Inventorying and Forecasting Conditions
- Step 3: Formulating Alternative Plans
- Step 4: Evaluating Alternative Plans
- Step 5: Comparing Alternative Plans
- Step 6: Selecting a Plan

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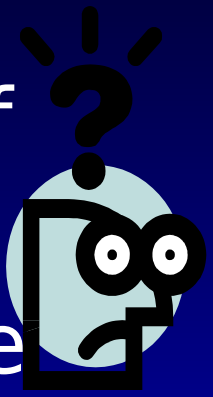
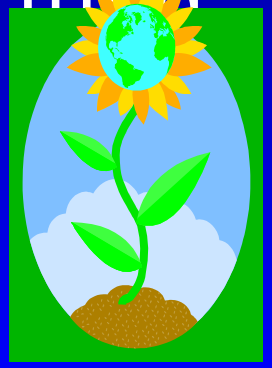
INTRO TO NEPA

- What is NEPA
- Preserve and protect human environment
- Coordination with other Agencies
- Public involvement
- Documentation

What is NEPA?



- National Environmental Policy Act of 1969
- National charter on protection of the environment
- Process applies to Federal Agencies and the programs they fund



Human Environment

- Preserve & protect the human environment
  - Ecology
  - Water and air qualit
  - Endangered species
  - Socioeconomics
  - Archeology
  - Culture
  - Aesthetics
  - Recreation

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Interagency Coordination

- Coordination with agencies that have legal jurisdiction or expertise in the project area

Ohio EPA

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

OHIO DEPARTMENT OF NATURAL RESOURCES

OHIO HISTORY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

U.S. FISH & WILDLIFE SERVICE
DEPARTMENT OF THE INTERIOR

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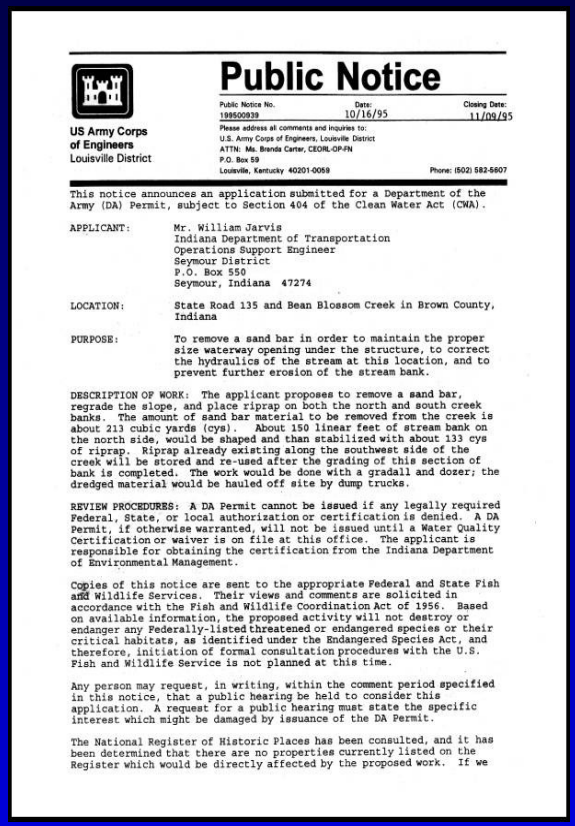
Public involvement

- Public notices
- Public meetings
- Comment on documents
- Surveys



Public Notice

US Army Corps of Engineers
Louisville District

Public Notice No. 199500939 | Date: 10/16/95 | Closing Date: 11/09/95

Please address all comments and inquiries to:
U.S. Army Corps of Engineers, Louisville District
ATTN: Ms. Brenda Carter, CEORL-OP-FN
P.O. Box 59
Louisville, Kentucky 40201-0059
Phone: (502) 582-5607

This notice announces an application submitted for a Department of the Army (DA) Permit, subject to Section 404 of the Clean Water Act (CWA).

APPLICANT: Mr. William Jarvis
Indiana Department of Transportation
Operations Support Engineer
Seymour District
P.O. Box 550
Seymour, Indiana 47274

LOCATION: State Road 135 and Bean Blossom Creek in Brown County, Indiana

PURPOSE: To remove a sand bar in order to maintain the proper size waterway opening under the structure, to correct the hydraulics of the stream at this location, and to prevent further erosion of the stream bank.

DESCRIPTION OF WORK: The applicant proposes to remove a sand bar, regrade the slope, and place riprap on both the north and south creek banks. The amount of sand bar material to be removed from the creek is about 213 cubic yards (cys). About 150 linear feet of stream bank on the north side, would be shaped and than stabilized with about 133 cys of riprap. Riprap already existing along the southwest side of the creek will be stored and re-used after the grading of this section of bank is completed. The work would be done with a gradall and dozer; the dredged material would be hauled off site by dump trucks.

REVIEW PROCEDURES: A DA Permit cannot be issued if any legally required Federal, State, or local authorization or certification is denied. A DA Permit, if otherwise warranted, will not be issued until a Water Quality Certification or waiver is on file at this office. The applicant is responsible for obtaining the certification from the Indiana Department of Environmental Management.

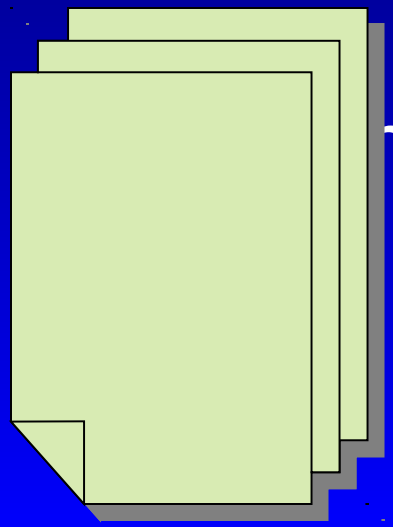
Copies of this notice are sent to the appropriate Federal and State Fish and Wildlife Services. Their views and comments are solicited in accordance with the Fish and Wildlife Coordination Act of 1956. Based on available information, the proposed activity will not destroy or endanger any Federally-listed threatened or endangered species or their critical habitats, as identified under the Endangered Species Act, and therefore, initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. A request for a public hearing must state the specific interest which might be damaged by issuance of the DA Permit.

The National Register of Historic Places has been consulted, and it has been determined that there are no properties currently listed on the Register which would be directly affected by the proposed work. If we

Documentation

- Environmental Assessment (EA)
  - Finding of No Significant Impact (FONSI)
- Environmental Impact Statement (EIS)
- Documents open to [illegible]nd Agency comment



Olentangy Ecology

Ecology

- Mussels
- Fish
- Invertebrates
- Riparian species

Impacts from humans

- Development & land use
- Impoundments
- CSO’s

Stonefly larva: USNPS

Threeridge mussel: Gary Peeples , USFWS

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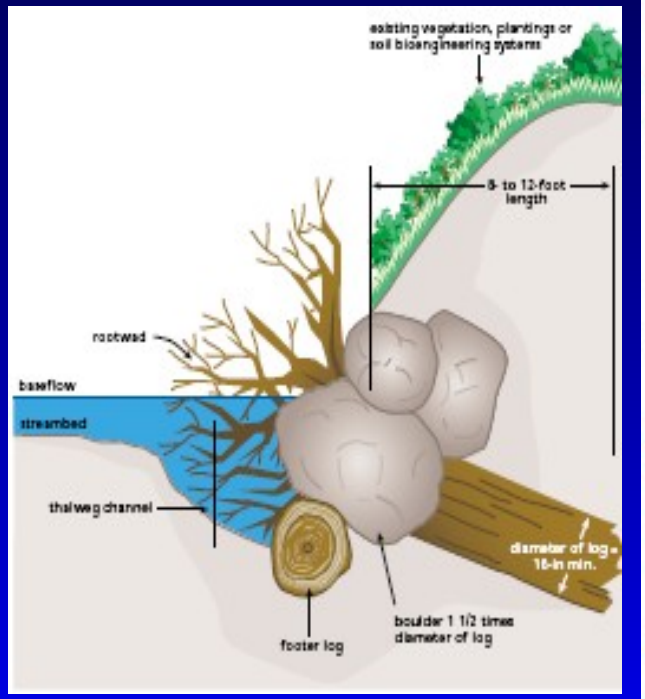
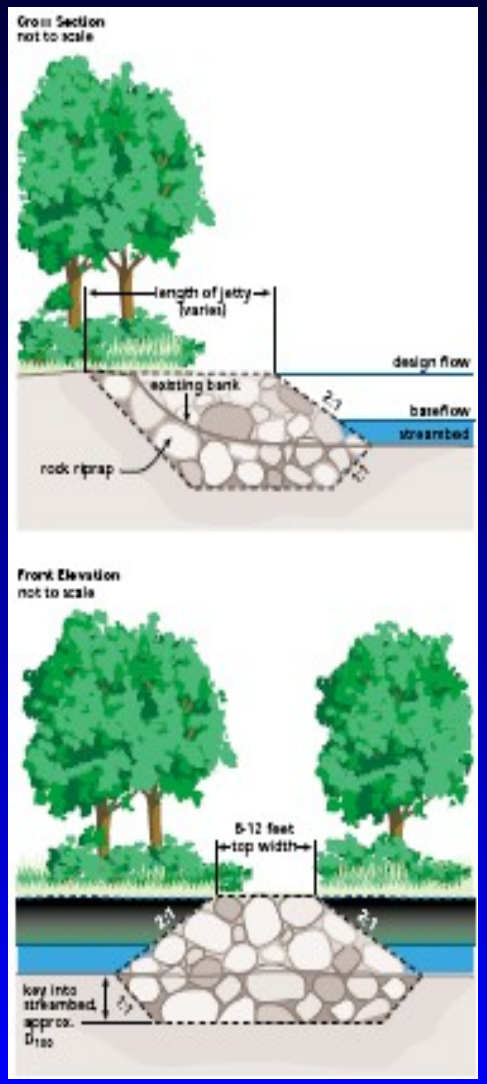
Potential project alternatives

- In-stream habitat structures
- Riparian habitat improvement
- Dam alteration or removal
- Water quality improvements

In-stream habitat structure

- Woody debris and stone can be placed in the stream to provide protective habitat and create riffles and pools





- Structures can also provide aeration and

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Riparian Habitat Improvement

- Enhancing vegetation alongside the river
  - Increases biodiversity
  - Intercepts, filters, and treats runoff
  - Provides food and shade for river fauna
  - Provides recreation and aesthetic

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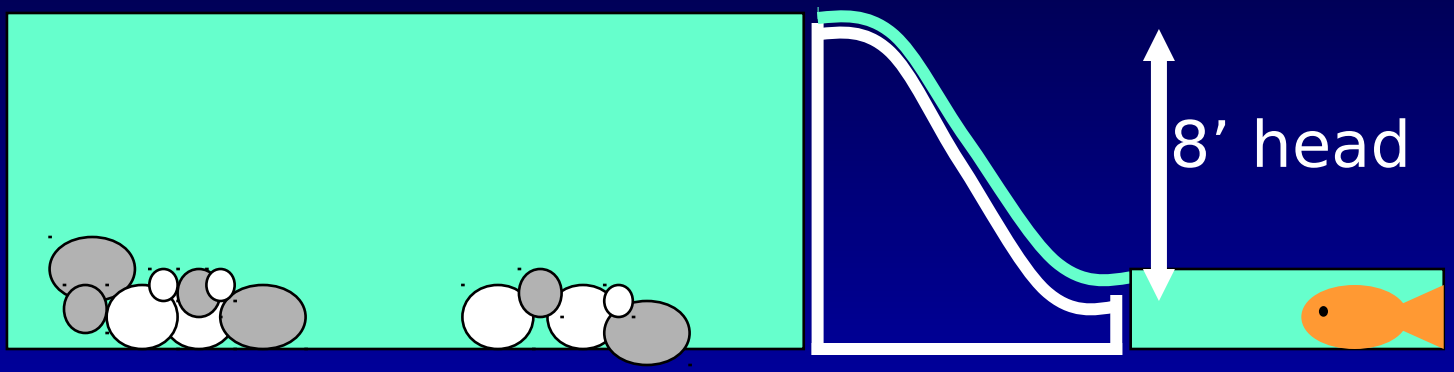
Dam Alteration or removal

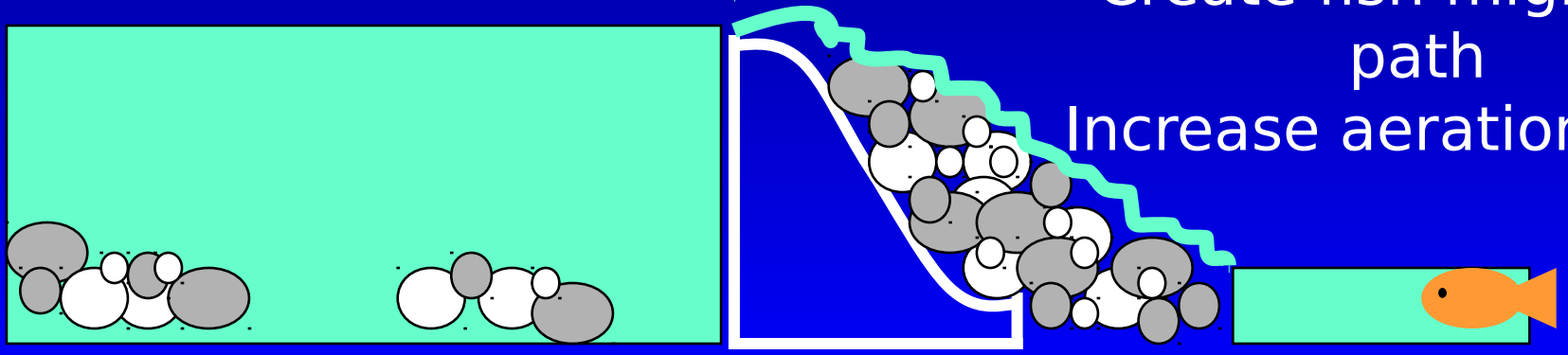
Unaltered lowhead dam



Fish ladder

Create fish migration path

Increase aeration



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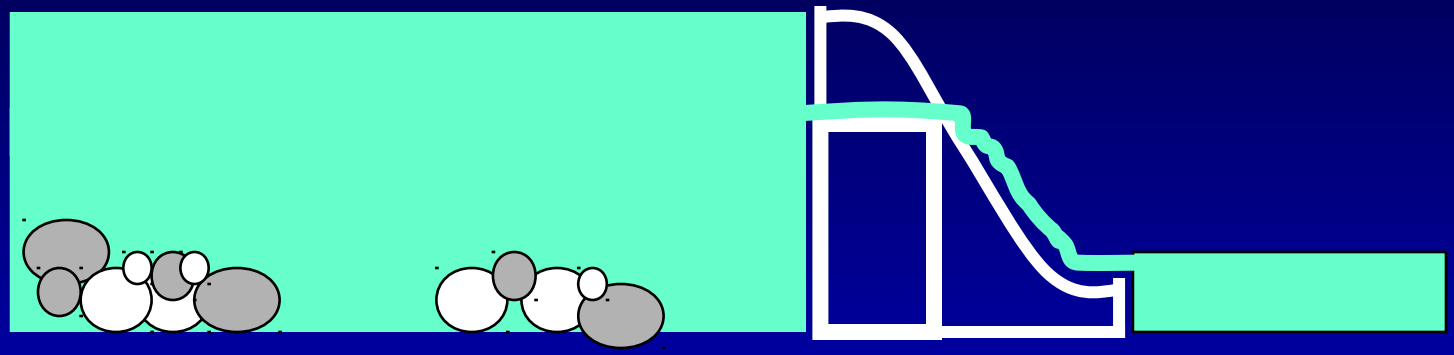
Dam Alteration or removal

Reduced- or adjustable-height Dam



Complete dam removal

Revert to natural pool-riffle system
Increase aeration and flow velocity

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Water Quality Improvement

- Aerate pool to increase dissolved oxygen (fountains or bubblers)
- Treat CSO outfalls (screening or aerating)
- Create riparian or wetland buffers to treat non-point source pollution

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Contact us

US Army Corps of Engineers
502 Eighth Street
Huntington, WV 25701

Karen Miller, Project manager: 304 399 5859

Amy Franz, Chief of Plan Formulations: 304 399 5845

Michael Worley, Chief of Planning Branch: 304 399 5802

Available at info kiosk as a handout

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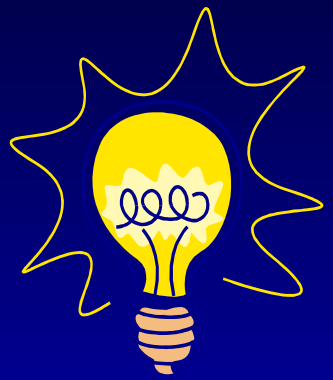
Questions



Please fill out a comment card!